

Claims

- [c1] 1. A device of cold cathode fluorescent flat lamp (CCFFL), comprising:
- a cavity, comprising a first inner wall and a second inner wall disposed opposite to the first inner wall;
 - a fluorescence material, disposed over the first inner wall and/or the second inner wall of the cavity;
 - a discharge gas, disposed inside the cavity;
 - a plurality of first electrode pairs, disposed over the first inner wall or an outer wall of the cavity, wherein each of the first electrode pairs comprises a first anode and a first cathode, and a first light emitting area is constructed between the first anode and the first cathode of each of the first electrode pairs; and
 - a plurality of second electrode pairs, disposed over the second inner wall or the outer wall of the cavity, wherein each of the second electrode pairs comprises a second anode and a second cathode, and a second light emitting area is constructed between the second anode and the second cathode of each of the second electrode pairs.
- [c2] 2. The device of claim 1, wherein the cavity comprises:
- a first substrate;

a second substrate, disposed over the first substrate;
and
a side bar, disposed between the first substrate and the second substrate, and the side bar is connected to an edge of the first substrate and an edge of the second substrate.

[c3] 3. The device of claim 2, wherein the first electrode pairs are disposed over the first substrate, and the second electrode pairs are disposed over the second substrate.

[c4] 4. The device of claim 1, wherein a portion of the first light emitting areas is not overlapped with the second light emitting areas, or a portion of the second light emitting areas is not overlapped with the first light emitting areas.

[c5] 5. The device of claim 1, wherein all of the first light emitting areas are not completely overlapped with all of the second light emitting areas.

[c6] 6. The device of claim 1, wherein the first anodes and the first cathodes over the first inner wall or the outer wall are arranged in a sequence in an order of anode, cathode, cathode and anode.

[c7] 7. The device of claim 1, wherein the second anodes and the second cathodes over the second inner wall or the

outer wall are arranged in a sequence in an order of anode, cathode, cathode and anode.

- [c8] 8. The device of claim 1, wherein each of the first anodes, each of the first cathodes, each of the second anodes or each of the second cathodes comprises a plurality of protrusions.
- [c9] 9. A driving method of a cold cathode fluorescent flat lamp (CCFFL), comprising:
alternately generating a plurality of first light emitting areas and a plurality of second light emitting areas ,
wherein the first light emitting areas and the second light emitting areas are not completely overlapped, and a frequency of alternately generating the first light emitting areas and the second light emitting areas is higher than a range that can be viewed as separate elements by unaided human eye.
- [c10] 10. The driving method of claim 9, wherein the frequency of alternately generating the first light emitting areas and the second light emitting areas comprises 16Hz.
- [c11] 11. A driving method of a cold cathode fluorescent flat lamp (CCFFL), comprising:
alternately generating a plurality of first light emitting

areas and a plurality of second light emitting areas, wherein a portion of the first light emitting areas is not overlapped with the second light emitting areas, or a portion of the second light emitting areas is not overlapped with the first light emitting areas, and a frequency of alternately generating the first light emitting areas and the second light emitting areas is higher than a range that can be viewed as separate elements by unaided human eye.

[c12] 12. The driving method of claim 11, wherein the frequency of alternately generating the first light emitting areas and the second light emitting areas comprises 16Hz.

[c13] 13. A device of cold cathode fluorescent flat lamp (CCFFL), comprising:
a cavity;
a discharge gas, disposed inside the cavity;
a fluorescence material, disposed over an inner wall of the cavity;
a plurality of electrode pairs, disposed over the inner wall or an outer wall of the cavity, and each of the electrode pairs comprises a plurality of first protrusions and a plurality of second protrusions disposed opposite to the first protrusions, wherein the first protrusions and the second protrusions are not aligned.

- [c14] 14. The device of claim 13, wherein the first protrusions and the second protrusions are arranged at equal distance, and an interval of the first protrusions is equal to an interval of the second protrusions.
- [c15] 15. The device of claim 13, wherein each the first protrusions is aligned at a midpoint of two of the second protrusions adjacent thereof.
- [c16] 16. The device of claim 13, wherein the cavity comprises:
a first substrate;
a second substrate, disposed over the first substrate;
and
a side bar, disposed between the first substrate and the second substrate, and the side bar is connected to an edge of the first substrate and an edge of the second substrate.